



DRILL STEM TEST REPORT

Prepared For: **GRAND MESA OPERATING**

1700 N WATERFRONT
PKWY BLDG 600
WICHITA KS 672065

ATTN: STEVE CARL

26-12S-32W LOGAN

GREG 1-26

Start Date: 2010.11.29 @ 09:00:00

End Date: 2010.11.29 @ 16:56:30

Job Ticket #: 1055 DST #: 2

Eagle Testers LLC.

P.O.Box 1011, Great Bend, KS 67530

620-617-7548

Printed: 2010.11.29 @ 09:48:48

GRAND MESA OPERATING
GREG 1-26
26-12S-32W LOGAN
DST # 2
JOHNSON
2010.11.29



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Job Ticket: 1055 **DST#: 2**
Test Start: 2010.11.29 @ 09:00:00

GENERAL INFORMATION:

Formation: **JOHNSON**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:47:30

Time Test Ended: 16:56:30

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 15 67 MRT SCOTT CIT

Interval: 4584.00 ft (KB) To 4632.00 ft (KB) (TVD)

Total Depth: 4632.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3024.00 ft (KB)

3018.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 6651

Inside

Press @ Run Depth: 285.11 psig @ 4628.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2010.11.29 End Date: 2010.11.29

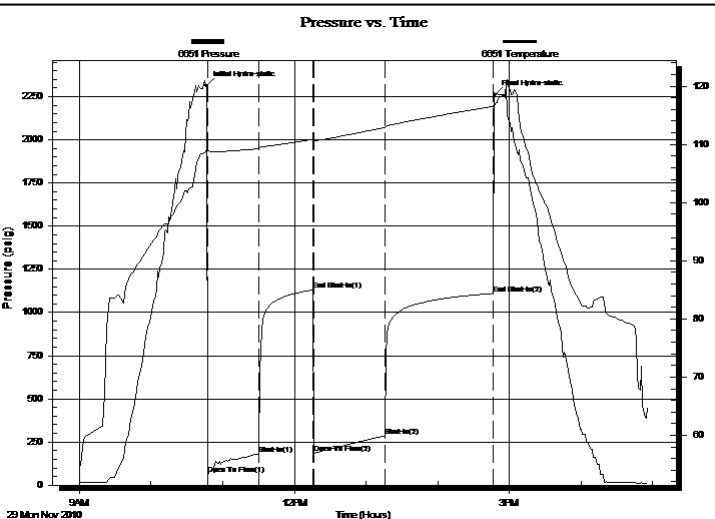
Last Calib.: 2010.11.29

Start Time: 09:00:00 End Time: 16:56:30

Time On Btm: 2010.11.29 @ 10:46:30

Time Off Btm: 2010.11.29 @ 14:48:00

TEST COMMENT: 45-INITIAL OPENING WEAK BLOW BOTTOM BUCKET IN 28 MIN
45-INITIAL SHUT IN VERY WEAK BLOW BACK
60-FINAL OPENING WEAK BLOW BUILT TO BOTTOM BUCKET IN 34 MINS
90-FINAL SHUT IN NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2314.20	109.34	Initial Hydro-static
1	60.71	108.85	Open To Flow (1)
44	180.40	109.26	Shut-In(1)
89	1130.31	110.88	End Shut-In(1)
90	184.57	110.67	Open To Flow (2)
149	285.11	112.89	Shut-In(2)
240	1110.44	116.53	End Shut-In(2)
242	2263.95	116.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
310.00	WATER CUT MUD 65%MUD35%WATER	3.37
180.00	WATER TRACE OF MUD 95%W5%MUD	2.63

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



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TOOL DIAGRAM

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Tool Information

Drill Pipe:	Length: 4442.00 ft	Diameter: 3.88 inches	Volume: 64.96 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 65.55 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	1.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4584.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	48.00 ft			
Tool Length:	71.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHUT IN TOOL	5.00			4566.00	
HYD S.I. Tool	5.00			4571.00	
jars	6.00			4577.00	
safty joint	2.00			4579.00	
TRAVEL COLER	2.00			4581.00	
Packer	3.00			4584.00	23.00 Bottom Of Top Packer
travel collar	1.00			4585.00	48.00 Tool Interval
Packer	1.00			4586.00	
change over sub	0.75			4586.75	
drill pipe	31.50			4618.25	
change over sub	0.75			4619.00	
Perforations	8.00			4627.00	
Recorder	1.00	6651	Inside	4628.00	
Recorder	1.00	8525	Outside	4629.00	
bull plug	3.00			4632.00	1000070.00 Bottom Packers & Anchor

Total Tool Length: 71.00



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FLUID SUMMARY

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Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 48.00 sec/qt
Water Loss: 7.90 in³
Resistivity: ohm.m
Salinity: 3000.00 ppm
Filter Cake: inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
310.00	WATER CUT MUD 65%MUD35%WATER	3.369
180.00	WATER TRACE OF MUD 95%W5%MUD	2.632

Total Length: 490.00 ft Total Volume: 6.001 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

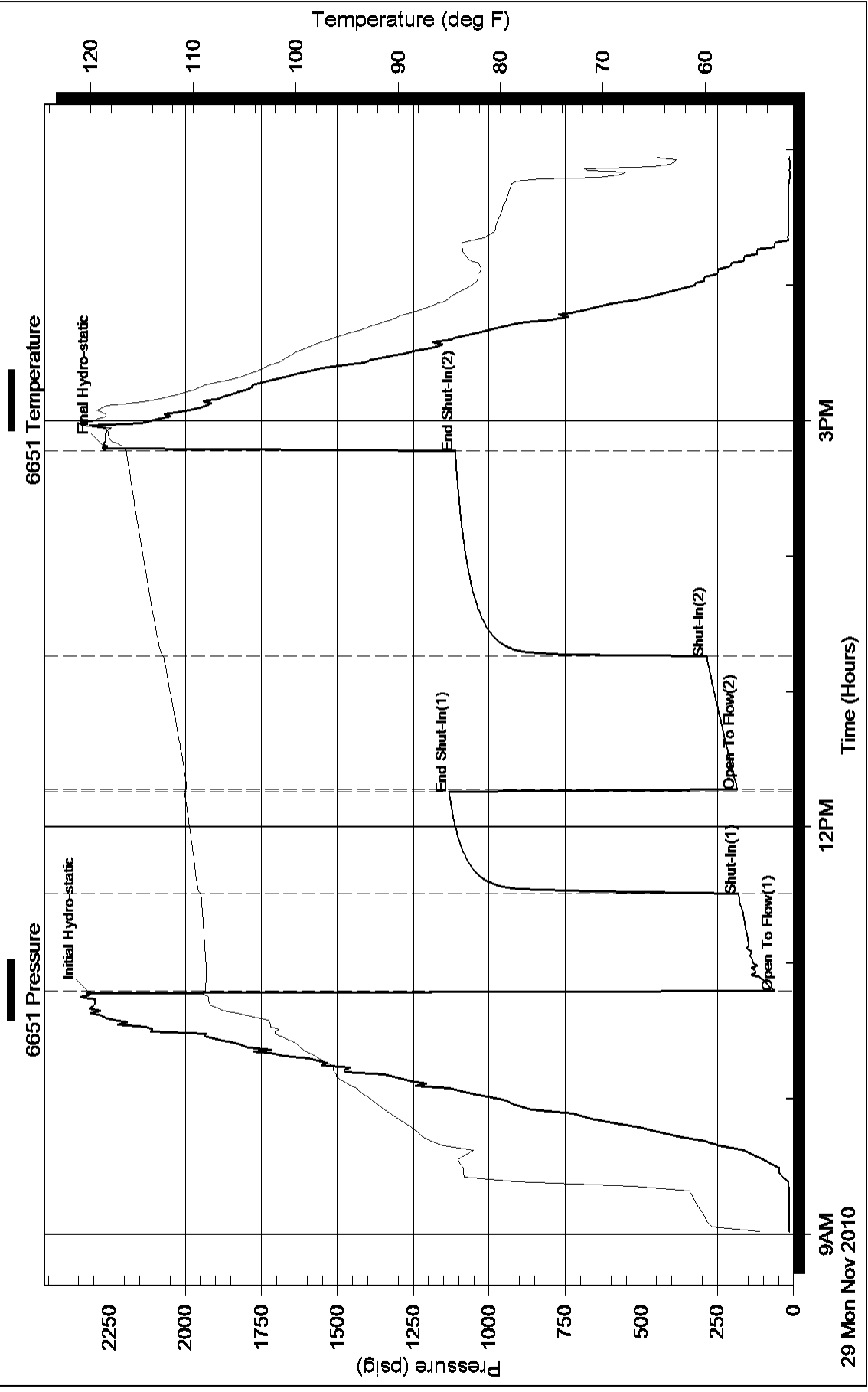
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RECOVERY CHLORIDES 35,000

Pressure vs. Time

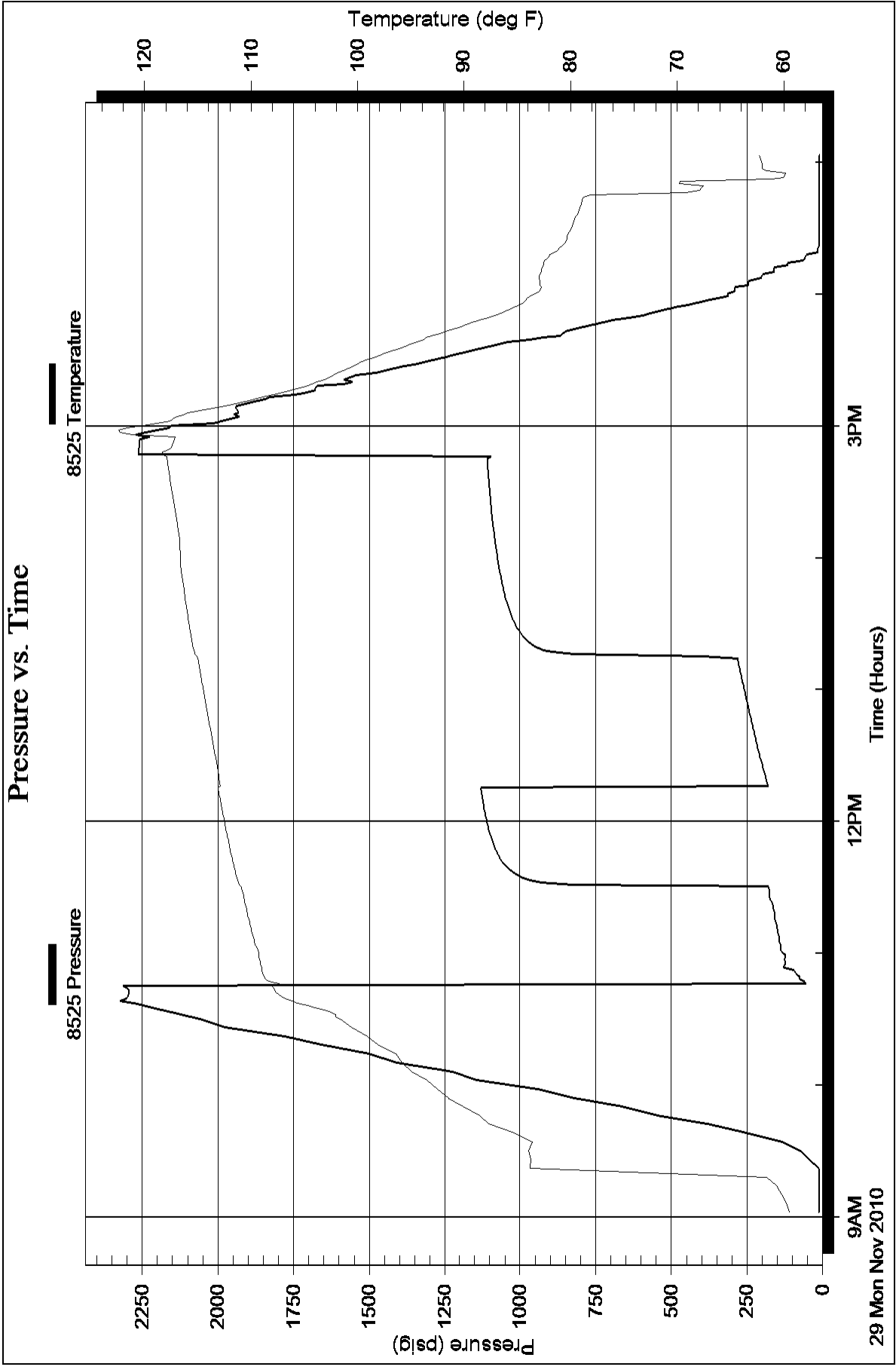


Serial #: 8525

Outside GRAND MESA OPERATING

26-12S-32W LOGAN

DST Test Number: 2



Eagle Testers LLC.

Ref. No: 1055

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